



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT OIL AND GAS OPERATIONS

OIL & GAS COMPLAINT FILE  
WATER SUPPLY  
PUBLIC FOLDER

August 1, 2012

CERTIFIED MAIL NO. 7011 3500 0000 6251 5185

[REDACTED]  
5269 SR 187  
Sugar Run, PA 18846

Re: 58 Pa C.S. §3218 Determination  
Complaint No. 290524  
Wilmot Township, Bradford County

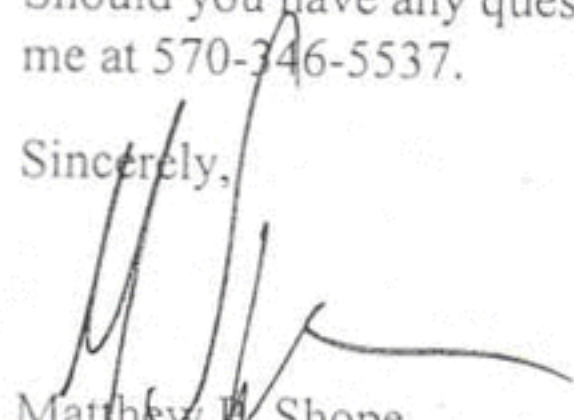
Dear Mr. [REDACTED]:

The Department has investigated the possible degradation of your water supply well located at 5269 SR 187 in Sugar Run, PA 18846, in response to a complaint that recent gas well drilling activities may have affected your water well. On 7/9 & 7/10/2012, the Department collected samples from your home water supply. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical reports for the samples are included, as well as documents that will assist you with interpreting the sample results.

At this time, the Department's investigation does not indicate that gas well drilling has impacted your home water supply.

Should you have any questions concerning this matter, please feel free to contact me at 570-346-5537.

Sincerely,

  
Matthew W. Shope  
Water Quality Specialist  
Eastern Oil and Gas District

Enclosures: Laboratory Analytical Results  
"How to Interpret A Water Analysis Report"

cc: Mike O'Donnell  
Chesapeake Appalachia  
Eric Rooney  
Complaint File



01045A	IRON T		22.000 UG/L
07/11/2012 09:54 AM	MOBERCASH EPA 200.7		
01132A	LITHIUM T		<25 UG/L
07/11/2012 09:54 AM	MOBERCASH EPA 200.7		
00929A	SODIUM T		4.910 MG/L
07/11/2012 09:54 AM	MOBERCASH EPA 200.7		
01092A	ZINC T		<10.0 UG/L
07/11/2012 09:54 AM	MOBERCASH EPA 200.7		

PAGE 2 of 3

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 480

Status: Completed

And Time			Date
Test Codes/CAS# - Description	Analyst	Test Method	Reported Results
Analyzed			
00900 Hardness T			52 MG/L
07/11/2012 09:54 AM	MOBERCASH	SM 2340 B	
00403 pH			7.5 pH units
07/10/2012 05:18 PM	GDELONG	SM 4500H-B	
** Comment ** Time Limit For Test Exceeded			
00314 BOD5 INHIB			1.20 MG/L
07/11/2012 09:22 AM	JRONEMUS	SM 5210B	
00095 SPC @ 25.0 C			144.40 umhos/cm
07/13/2012 01:53 PM	GDELONG	SM 2510B	
00410 ALKALINITY			49.8 MG/L
07/10/2012 05:18 PM	GDELONG	SM 2320B	
00530 T SUSP SOLID			<5 MG/L
07/10/2012 12:00 AM	LWILKINSONUSGS	I-3765	
70300U TDS180 -USGS			88 MG/L
07/10/2012 12:00 AM	LWILKINSONUSGS	I-1750	
00630A NO3+NO2-N			0.06 MG/L
07/10/2012 07:12 PM	KATHMARTINEPA	353.2	
00665A PHOSPHORUS T			<.01 MG/L
07/16/2012 03:39 PM	BKROVIC	EPA 365.1	
82550 OSMO PRES*			1 MOSM
07/10/2012 12:40 PM	KMCMULLEN	BOL BOL	
99020 BROMIDE			<25.0 UG/L
07/12/2012 12:20 PM	FVODOPIVECEPA	300.1 B	
00940 CHLORIDE -IC			1.90 MG/L
07/10/2012 02:29 PM	FVODOPIVECEPA	300.0	
00945 SULFATE - IC			10.71 MG/L
07/10/2012 02:29 PM	FVODOPIVECEPA	300.0	



Date of Issue: 07/27/2012 12:07:02

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DEP Bureau Of Laboratories - Harrisburg

P.O. Box 1467

2575 Interstate Drive

Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 480

Status: Completed

Name of Sample Collector: Mathew Shope

Date Sample was collected: 07/09/2012 12:55:00 PM

County: Bradford

State: PA

Municipality: Wilmot Twp

SUGAR RUN, PA.

5260 SR 187

Sample Medium : Water  
Sample Medium Type: Water

Location: NOT INDICATED

Reason: Complaint

Laboratory Sample ID: I2012020475

Completed

Standard Analysis: 046

Legal Seal: I013523 Intact: YES  
Legal Seal: I013524 Intact: YES  
Legal Seal: I013525 Intact: YES  
Legal Seal: I013526 Intact: YES

Date

And Time  
Test Codes/CAS# - Description  
Analyzed  
Analyst  
Test Method  
Reported Results

<200 UG/L

78.000 UG/L

16.400 MG/L

01105A ALUMINUM T 07/11/2012 09:54 AM MOBERCASH EPA 200.7  
01007A BARIUM T 07/11/2012 09:54 AM MOBERCASH EPA 200.7  
00916A CALCIUM T 07/11/2012 09:54 AM MOBERCASH EPA 200.7

00610A AMMONIA-N T <.02 MG/L  
07/16/2012 07:21 PM CRADEK EPA 350.1  
\*\* Comment \*\* Possible Matrix Interference

POSSIBLE MATRIX INTERFERENCE

01147H	SELENIUM T			<7 UG/L
07/25/2012 04:11 PM	CGASTON	EPA 200.8		
01002H	ARSENIC T			<3.0 UG/L
07/25/2012 04:11 PM	CGASTON	EPA 200.8		
01082A	STRONTIUM T			120.000 UG/L
07/11/2012 09:54 AM	MOBERCASH	EPA 200.7		
01022K	Boron Total			<200 UG/L
07/11/2012 09:54 AM	MOBERCASH	EPA 200.7		
00927A	MAGNESIUM T			2.570 MG/L
07/11/2012 09:54 AM	MOBERCASH	EPA 200.7		
01055A	MANGANESE T			<10.00 UG/L
07/11/2012 09:54 AM	MOBERCASH	EPA 200.7		

PAGE 3 of 3

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 480

Status: Completed

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The results of the analyses provided in this laboratory report relate only to the sample(s) identified in the report. Unless otherwise noted, the results presented on this laboratory report meet all the requirements of The NELAC Institute (TNI). Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. Tests noted with an "\*" are not included in our NJ NELAP Annual Certified Parameter List.

Taru Upadhyay, Technical Director, Bureau of Laboratories

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Date of Issue: 07/21/2012 12:07:03

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DEP Bureau Of Laboratories - Harrisburg

P.O. Box 1467

2575 Interstate Drive

Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 482

Status: Completed

Name of Sample Collector: Mathew Shope

Date Sample was Collected: 07/10/2012

County: Bradford

State: PA

Municipality: Wilmot Twp

5269 SR 187

SUGAR RUN, PA.

Sample Medium :

Sample Medium Type:

Location: NOT INDICATED

Reason: Complaint

Laboratory Sample ID: O2012006782  
Completed

Suite: METH

Legal Seal: I013531

Intact: YES

Date

And Time

Test Codes/CAS# - Description

Analyzed

Analyst

Test Method

Reported Results

74828

Methane

07/12/2012 02:00 AM

DACLEMENS BOL BOL6019

12.0 UG/L (U)

74840

Ethane

07/12/2012 02:00 AM

DACLEMENS BOL BOL6019

12.4 UG/L (U)

74986

Propane

07/12/2012 02:00 AM

DACLEMENS BOL BOL6019

14.2 UG/L (U)

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Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 482

Status: Completed

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The results of the analyses provided in this laboratory report relate only to the sample(s) identified in the report. Unless otherwise noted, the results presented on this laboratory report meet all the requirements of The NELAC Institute (TNI). Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. Tests noted with an "\*" are not included in our NJ NELAP Annual Certified Parameter List.

Taru Upadhyay, Technical Director, Bureau of Laboratories

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Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 482

Status: Completed

ORGANICS LABORATORY QUALIFIERS  
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U - Indicates analysis was performed for the compound but it was not detected.

The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25%

confirmation  
difference between the results obtained from the primary and columns for dual column analysis methods (i.e. pesticides, triazines, PCBs, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

       - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.



Date of Issue: 07/29/2012 12:07:07

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DEP Bureau Of Laboratories - Harrisburg

P.O. Box 1467

2575 Interstate Drive

Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 483

Status: Completed

Name of Sample Collector: Mathew Shope

Date Sample was Collected: 07/10/2012

County: Bradford

Municipality: Wilmot Twp

State: PA

5269 SR 187  
SUGAR RUN, PA.

Sample Medium :  
Sample Medium Type:

Location: NOT INDICATED  
Reason: Complaint

Laboratory Sample ID: I2012020754  
Completed  
Standard Analysis: 946

Legal Seal: I013533

Legal Seal: I013534

Legal Seal: I013532

Intact: YES

Intact: YES

Intact: YES

And Time	Test Codes/CAS# - Description	Analyst	Test Method	Reported Results	Date
00937A	POTASSIUM T				
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	<1.00 MG/L	
01132A	LITHIUM T				
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	<25 UG/L	
00929A	SODIUM T				
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	5.099 MG/L	

01092A	ZINC T			<10.0 UG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
01055M	Mn in MG/L			<0.01 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
01007M	Ba in MG/L			0.080 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
01045M	Fe in MG/L			0.03 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
01082M	Sr in MG/L			0.13 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	

PAGE 2 of 2

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 3809 483

Status: Completed

And Time	Test Codes/CAS# - Description	Analyst	Test Method	Reported Results	Date
Analyzed					
70300	TDS @180 C			86 MG/L	
07/11/2012 12:00 AM		LWILKINSONSM	2540 C		
00940A	CHLORIDE			2.0 MG/L	
07/13/2012 05:15 PM		CRADCK	SM 4500-CL		
00900	Hardness T			52 MG/L	
07/12/2012 11:49 AM		RWHEELER	SM 2340 B		
00403	pH			7.4 pH units	
07/11/2012 06:09 PM		GDELONG	SM 4500H-B		
** Comment **	Time Limit For Test Exceeded				
00095	SPC @ 25.0 C			127.30 umhos/cm	
07/13/2012 03:23 PM		GDELONG	SM 2510B		
00410	ALKALINITY			52.0 MG/L	
07/11/2012 06:09 PM		GDELONG	SM 2320B		
71870	BROMIDE			<0.2 MG/L	
07/11/2012 12:00 AM		FVODOPIVECEPA	300.0		
82079	TURBIDITY			<1 NTU	
07/11/2012 12:49 PM		TVOROBECHEPA	180.1		
00530	T SUSP SOLID			<5 MG/L	
07/11/2012 12:00 AM		LWILKINSONUSGS	I-3765		
01147H	SELENIUM T			<7 UG/L	
07/26/2012 12:00 AM		MBRINSER	EPA 200.8		
01002H	ARSENIC T			<3.0 UG/L	
07/26/2012 12:00 AM		MBRINSER	EPA 200.8		
00945A	SULFATE T			<15.0 MG/L	
07/18/2012 02:53 PM		RRANGEL	EPA 375.2		



00927A	MAGNESIUM T			2.755 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
01105A	ALUMINUM T			<200 UG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	
00916A	CALCIUM T			16.100 MG/L
07/12/2012 11:49 AM		RWHEELER	EPA 200.7	

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The results of the analyses provided in this laboratory report relate only to the sample(s) identified in the report. Unless otherwise noted, the results presented on this laboratory report meet all the requirements of The NELAC Institute (TNI). Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. Tests noted with an "\*" are not included in our NJ NELAP Annual Certified Parameter List.

Taru Upadhyay, Technical Director, Bureau of Laboratories

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RANDY GIRVEN

AUG 03 2012

5260 CD 107

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**X** *Randy Girven*

☐ Agent

☒ Addressee

B. Received by (Printed Name)

*Girven*

C. Date of Delivery

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PA DEPT OF ENVIRONMENTAL PROTECTION  
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SCRANTON DISTRICT OFFICE  
SAMTER BLDG RM 400  
101 PENN AVE  
SCRANTON PA 18503

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